

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended)      A ~~An~~ audio transmission system comprising:

        a ~~an~~ audio transmitter for transmitting an input signal to a ~~an~~ audio receiver via a transmission channel, the audio transmitter comprising:

        a splitter for splitting up a single input audio signal on a single input line into at least first and second frequency band signals<sub>1</sub>

        a first encoder for encoding the first frequency band signal into a first encoded frequency band signal<sub>1</sub> and

        a second encoder for encoding the second frequency band signal into a second encoded frequency band signal,

        the audio transmitter being arranged for transmitting the first and second encoded frequency band signals via the transmission channel to the audio receiver,

        the audio receiver comprising:

        a first decoder for decoding the first encoded frequency band signal into a first decoded frequency band signal<sub>1</sub> and

        a second decoder for decoding the second encoded frequency band signal into a second decoded frequency band signal<sub>1</sub>

        a delay element for delaying one of the first and second decoded frequency band signals, so as to compensate for various

delays during the decoding of the first and second encoded frequency band signals~~7, i~~

a combiner for combining the first and second decoded frequency band signals into an output signal~~7, i~~ and

reconstruction means for reconstructing the second decoded frequency band signal when the second decoded frequency band signal is not available,

~~characterised~~ characterized in that the reconstruction means are ~~arranged for reconstructing~~ reconstructs the second decoded frequency band signal from the first decoded frequency band signal.

2. (Currently Amended) The audio transmission system according ~~was claimed in~~ claim 1, ~~characterised~~ characterized in that the reconstruction means ~~are arranged for reconstructing~~ reconstructs the second decoded frequency band signal from the first decoded frequency band signal by extending a bandwidth of the first decoded frequency band signal.

3. (Currently Amended) The audio transmission system according to claim 1, ~~characterised~~ characterized in that the reconstruction means ~~are arranged for reconstructing~~ reconstructs a present frame of the second decoded frequency band signal from a present frame of the first decoded frequency band signal and from a previous frame of the second decoded frequency band signal.

4. (Currently Amended) The audio transmission system ~~according~~  
~~was claimed in~~ claim 1, ~~characterised~~ characterized in that the  
first frequency band signal and the first encoded frequency band  
signal and the first decoded frequency band signal are signals  
having a low frequency band, and in that the second frequency band  
signal and the second encoded frequency band signal and the second  
decoded frequency band signal are signals having a high frequency  
band.

5. (Currently Amended) ~~A~~ An audio receiver for receiving, via  
a transmission channel, first and second encoded frequency band  
signals derived from a single input signal from ~~a~~ an audio  
transmitter, the audio receiver comprising:

- a first decoder for decoding the first encoded frequency  
band signal into a first decoded frequency band signal ~~and~~;
- a second decoder for decoding the second encoded frequency  
band signal into a second decoded frequency band signal ~~and~~;
- a delay element for delaying one of the first and second  
decoded frequency band signals, so as to compensate for various  
delays during the decoding of the first and second encoded  
frequency band signals ~~and~~;
- a combiner for combining the first and second decoded  
frequency band signals into an output signal ~~and~~;
- reconstruction means for reconstructing the second decoded  
frequency band signal when the second decoded frequency band signal  
is not available, ~~characterised~~ characterized in that the

reconstruction means ~~are arranged for reconstructing~~reconstructs the second decoded frequency band signal from the first decoded frequency band signal.

6. (Currently Amended) The audio receiver ~~according to as claimed in~~ claim 5, ~~characterised~~characterized in that the reconstruction means ~~are arranged for reconstructing~~reconstructs the second decoded frequency band signal from the first decoded frequency band signal by extending a bandwidth of the first decoded frequency band signal.

7. (Currently Amended) The audio receiver ~~according to as claimed in~~ claim 5, ~~characterised~~characterized in that the reconstruction means ~~are arranged for reconstructing~~reconstructs a present frame of the second decoded frequency band signal from a present frame of the first decoded frequency band signal and from a previous frame of the second decoded frequency band signal.

8. (Currently Amended) The audio receiver ~~according to as claimed in~~ claim 5, ~~characterised~~characterized in that the first encoded frequency band signal and the first decoded frequency band signal are signals having a low frequency band, and in that the second encoded frequency band signal and the second decoded frequency band signal are signals having a high frequency band.

9. (Currently Amended) A method of transmitting a single audio input signal via a transmission channel, the method comprising the steps of:

splitting up the single audio input signal into at least first and second frequency band signals~~—i~~

encoding the first frequency band signal into a first encoded frequency band signal~~—i~~ and encoding the second frequency band signal into a second encoded frequency band signal~~—i~~

transmitting the first and second encoded frequency band signals via the transmission channel~~—i~~

decoding the first encoded frequency band signal into a first decoded frequency band signal~~—i~~ and decoding the second encoded frequency band signal into a second decoded frequency band signal~~—i~~

delaying one of the first and second decoded frequency band signals, so as to compensate for various delays during the decoding of the first and second encoded frequency band signals~~—i~~

combining the first and second decoded frequency band signals into an audio output signal~~—i~~ and

reconstructing the second decoded frequency band signal when the second decoded frequency band signal is not available, ~~characterised~~ characterized in that the second decoded frequency band signal is reconstructed from the first decoded frequency band signal.

10. (Currently Amended) The method of transmitting an audio input signal via a transmission channel ~~according to as claimed in~~ claim 9, ~~characterised~~ characterized in that the second decoded frequency band signal is reconstructed from the first decoded frequency band signal by extending a bandwidth of the first decoded frequency band signal.

11. (Currently Amended) The method of transmitting an audio input signal via a transmission channel ~~according to as claimed in~~ claim 9, ~~characterised~~ characterized in that a present frame of the second decoded frequency band signal is reconstructed from a present frame of the first decoded frequency band signal and from a previous frame of the second decoded frequency band signal.

12. (Currently Amended) The method of transmitting an audio input signal via a transmission channel ~~according to as claimed in~~ claim 9, ~~characterised~~ characterized in that the first frequency band signal and the first encoded frequency band signal and the first decoded frequency band signal are signals having a low frequency band, and in that the second frequency band signal and the second encoded frequency band signal and the second decoded frequency band signal are signals having a high frequency band.

13. (Currently Amended) A method of receiving, via a transmission channel, first and second encoded frequency band

signals derived from a single audio input signal, the method comprising the steps of:

decoding the first encoded frequency band signal into a first decoded frequency band signal, and decoding the second encoded frequency band signal into a second decoded frequency band signal;

delaying one of the first and second decoded frequency band signals, so as to compensate for various delays during the decoding of the first and second encoded frequency band signals;

combining the first and second decoded frequency band signals into an audio output signal; and

reconstructing the second decoded frequency band signal when the second decoded frequency band signal is not available, ~~characterised~~ characterized in that the second decoded frequency band signal is reconstructed from the first decoded frequency band signal.

14. (Currently Amended) The method of receiving, via a transmission channel, first and second encoded frequency band signals ~~according to as claimed in~~ claim 13, ~~characterised~~ characterized in that the second decoded frequency band signal is reconstructed from the first decoded frequency band signal by extending a bandwidth of the first decoded frequency band signal.

15. (Currently Amended) The method of receiving, via a transmission channel, first and second encoded frequency band signals ~~according to as claimed in~~ claim 13, ~~characterised~~ characterized in that a present frame of the second decoded frequency band signal is reconstructed from a present frame of the first decoded frequency band signal and from a previous frame of the second decoded frequency band signal.

16. (Currently Amended) The method of receiving, via a transmission channel, first and second encoded frequency band signals ~~according to as claimed in~~ claim 13, ~~characterised~~ characterized in that the first encoded frequency band signal and the first decoded frequency band signal are signals having a low frequency band, and in that the second encoded frequency band signal and the second decoded frequency band signal are signals having a high frequency band.

17. (Currently Amended) A speech decoder for decoding first and second encoded frequency band speech signals derived from a single input speech signal, the speech decoder comprising:

- a first decoder for decoding the first encoded frequency band speech signal into a first decoded frequency band speech signal ~~and;~~

- a second decoder for decoding the second encoded frequency band speech signal into a second decoded frequency band speech signal ~~;~~



a delay element for delaying one of the first and second decoded frequency band signals, so as to compensate for various delays during the decoding of the first and second encoded frequency band signals;

a combiner for combining the first and second decoded frequency band speech signals into an output speech signal; and

reconstruction means for reconstructing the second decoded frequency band speech signal when the second decoded frequency band signal is not available, ~~characterised~~ characterized in that reconstruction means ~~are arranged for reconstructing~~ reconstructs the second decoded frequency band speech signal from the first decoded frequency band speech signal.

18. (Currently Amended) The speech decoder ~~according to~~ as claimed in claim 17, ~~characterised~~ characterized in that the reconstruction means ~~are arranged for reconstructing~~ reconstructs the second decoded frequency band speech signal from the first decoded frequency band speech signal by extending a bandwidth of the first decoded frequency band speech signal.

19. (Currently Amended) The speech decoder ~~according to~~ as claimed in claim 17, ~~characterised~~ characterized in that the reconstruction means ~~are arranged for reconstructing~~ reconstructs a present frame of the second decoded frequency band speech signal from a present frame of the first decoded frequency band speech

signal and from a previous frame of the second decoded frequency band speech signal.

20. (Currently Amended) The speech decoder ~~according to as~~  
claimed in claim 17, ~~characterised~~ characterized in that the first  
encoded frequency band speech signal and the first decoded  
frequency band speech signal are signals having a low frequency  
band, and in that the second encoded frequency band speech signal  
and the second decoded frequency band speech signal are signals  
having a high frequency band.